

## VARIEGATA ONCIDIUMS

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In *Phytologia* Vol. 15. No. 1 the author and A.D. Hawkes had an article on "Studies in the equitant oncidiums". In Vol. 17. No. 6 of the same publication the author had two more articles. In the article in Vol. 15 page 10 and 11 is described a var. majus to Onc. leiboldii. This has proven to be a natural hybrid between Onc. leiboldii Rchb.f. and Onc. variegatum (SW.) SW. and in this article it is named Onc. x cubense, for it arrived in Hawaii before 1950 as a plant from Cuba without place of origin.

In the *American Orchid Soc. Bull.* 36:220, 1967 Withner described Onc. osmentii. Just as in the case of Onc. x cubense I have proved by actual breeding that this plant is a natural hybrid between Onc. haitiense Leonard & Ames and Onc. quadrilobum C. Schweinfurth so this name will be recorded henceforth as Onc. x osmentii (Withner) Moir 1972.

Mr. William Osment of 2435 Cleveland St., Hollywood, Florida has, in the last couple of years, found some interesting new plants while studying these Variegata oncidiums in the Dominican Republic. He found, along with Miss Ann Hadder, a new natural hybrid between Onc. variegatum (SW.) SW. and Onc. haitiense Leonard & Ames at Sabana Alta in the western part of the Republic. This is described as Onc. x ann-hadderiae. In the northwest part of the Republic, Osment found a form of Onc. desertorum that has a red lip and yellow sepals and petals. This is described herein as Onc. desertorum var. aureorubrum. This could possibly be a natural hybrid between Onc. desertorum and Onc. desertorum var. alborubrum.

In Haiti in 1955 the author collected plants of Onc. velutinum (Ldl.) when not in flower. When flowering these in Hawaii one plant turned out to be different. It looked like a hybrid of Onc. velutinum (Ldl.) and Onc. variegatum (SW.) SW. A year ago the man made hybrid of these two species was flowered. It turned out to be identical to the plant from Haiti and so the Haiti plant has been named Onc. x varvelum. The all purple form of Onc. velutinum is to be found in both the D.R. and Haiti on the southwestern portion of Hispaniola. The flower is larger and its crest has three large horns instead of 5 of the species. This is now designated var. purpureum.

A book has been published in 1970 by the author and his wife, May A. Moir, on "Variegata Oncidiums" and pictures of them given along with the prominent points of their characteristics as to location, growth, flowers, environment, and

further comments. With those described here there now totals 30 species, 8 varieties and 11 natural hybrids. Onc. guibertianum (A. Rich) has proved to be Onc. lemonianum (Lindl.) so the latter name should now be used. Onc. tenellum listed by Garay on page 450 of "A Reappraisal of the Genus Oncidium SW." is not to be found in Guyana and its description reads like Onc. variegatum (SW.) SW. and is not counted among the 30 species.

There still exists in the Bahamas three types of plants that have different colors of flowers that are different to Onc. lucayanum Nash, Onc. bahamense Nash, Onc. sylvestre Ldl. and Onc. urophyllum Lodd. Plants with purple and white flowers are three times larger than Onc. lucayanum and have up to 50 flowers per spike. The yellow flowered form and the orange red form are plants of intermediate size and have well spaced flowers but fewer. A form of urophyllum was found in Eleuthera, Bahamas by John Hall III but it has much longer rhizomes than the type form in Antigua. The form of Onc. bahamense Nash (not Onc. variegatum (SW.) SW.) in west Palm Beach area in Florida is also much more vigorous than the form from Andros, Bahamas, even after 15 years of growing side by side in Hawaii.

Many years ago I went to the Dominican Republic and while dollecting in the area east of Santiago Rodriguez some plants were collected not in flower. Later one bloomed that was different to any I had seen before. Later Osment sent me in 1971 a plant that has flowered in May 1972 that has the same flower. I thought these had Onc. variegatum in them but on closer examination it is not so. I know how the hybrid would be if it was a natural cross of Onc. variegatum with the yellow flowered species of the area: desertorum, quadrilobum and haitiense so I have described it as a new species named it after Dr. Jose de J. Jimenez of Santiago de los Caballeros, a medical doctor with a hobby of botany and author of Supplement No. 1 of Moscosco's Flora Domingensis.

Herbarium specimens of the new additions will be sent to Ames Herbarium, Harvard University, Cambridge, Mass. For Onc. x cubense, a new label for the specimen Onc. leiboldii var. majus will be sent instead of a new specimen. All specimens have been flowered in Hawaii and checked with other species. Natural hybrids have been checked with man made plants of the same crosses. No specimen will be sent of Onc. velutinum var. purpureum but a photograph will suffice.

*ONCIDIUM JIMENEZII*, Moir, sp. nov.

Planta grandis. Pseudobulbi nulli. Folia ad 5 sessilis. lanceolata, acuta, supra profunde canaliculata, crasse coriacea, margine minute denticulata, ad 6 cm. longa, ad 1 cm. lata; viridis. Scapus racemosa, post paniculata, pauciflora, 15 ad 25 cm. longa; bractae lanceolata, tenuimembranaceae, ad 1 cm. longa; pedicelli cum ovariis 2 cm. longi. Sepalum dorsale spathulatum, concavum, rubiginosus; laterali synsepalum post labellum, linearis, 2 apicem; 1 cm. longum, 2 mm. latum. Petala 1.2 cm. longa, 8 mm. lata, obtusa, prima rubiginosa, citrina cum rubiginosa maculata. Labelli lobi laterales 8 mm. longa, 4 mm. lata, oblongive, apice rotundati; isthmi angusti; lobus intermedius reniformis, apice unguis, laviter crenulatus, 2 cm. latus, totum labellum ad 1.5 cm. longum, omnia lutea; cristis labelli biseriata, tubercula 3 in serie, toti 6, lutei. Gynostemii alae magnae, ovalis, acutae, citrinae. Fl. a maius.

Plant large, no pseudobulb. Leaves to 5, lanceolate, pointed, above deeply grooved, fat and coarse, minute teeth on margin, to 6 cm. long, to 1 cm. broad. Scape raceme, later panicle, few to many flowered, 15 to 25 cm. long; bracts lanceolate, membranous, to 1 cm. long; pedicel plus ovary 2 cm. long. Dorsal sepal spathulate, concave, brown red; laterals synsepal behind labellum, linear with 2 points, 1 cm. long, 2 mm. broad, spotted with brown red. Petal 1.2 cm. long, 8 mm. broad, obtuse, first brown red then pale yellow with brown red spots near edge. Labellum side lobes 7 mm. long, 4 mm. broad, oblong, rounded end; narrow isthmus; middle lobe reniform, full, apice clawed, large indent, edge crenulate, 2 cm. broad, yellow, total labellum to 1.5 cm. long; crest in two series of 3 each, 6 in total, forward pointing, upper outer ones slightly grooved. Wings on column large, bottom rounded, upper end pointed. Flowers in May.

Dominican Republic east of Santiago Rodriguez in shrubbery. Collected by Moir in 1955. Recollected by William Osment in 1969.

*ONC. VELUTINUM* var. *PURPUREUM* Moir, var. nov.

Differt a forma typica flora amplius. Flora color purpura; cristis 3 partibus in vicam 5.

Plant same as species but flower larger and of purple color with darker purple colors near crest, upper lobes and at base of sepals and petals, crest, upper lobes and at base of sepals and petals. Crest has 3 instead of 5 horns that is the two, one on each side of the large horn of the lower section of the crest, are not present so makes lower, large horn more prominent.

Hispaniola SW. Collected at roadside on citrus trees along with species and n.h. Onc. x varvelum 1955. Above Petionville, Haiti.

ONCIDIUM DESERTORUM var. AUREORUBRUM, Moir var. nov.

Planta similis var. alborubrum; petala et sepala lutea in viceum album.

Strong plant, much greener than type. Sepals and petals deep yellow and red lip, so very much like var. alborubrum except for sepals and petals color.

Dominican Republic - near Santiago Rodriguez. Collected by William Osment. Flowered in Hawaii.

ONCIDIUM x ANN-HADDERIAE, Moir, nat. hybr. nov.

(Onc. variegatum (SW.) SW. x Onc. haitiense Leonard and Ames) Habitu inter parentiis intermedium. Flora magna.

Pseudobulb not visable, growth compact to slightly rhizomatous. Leaves 4 cm. long and 1 cm. broad, olive green, dull point, upper edge grooved, 5 to 6 leaves. Scape raceme then later branched. Dorsal sepal 6 mm. long, 2 mm. broad, concave, brown bars on yellow; lateral sepals joined to near end, concave, brown, 1 cm. long, 4 mm. broad. Petals 1.2 cm. long by 5 mm. wide, brown bars part way on yellow, pointed petals turned upward and slightly reflexed. Lip 1.7 cm. long 1.9 cm. broad, full, reniform lower lobe, light yellow, slightly undulating edge; lateral lobes 5 mm. long by 2 mm wide, turned up. crest large, 6 parts 5 nearly equal in size and all but the middle one of the lower three are turned down, but the middle one of the upper three is a pearlike projection. Wings on column large, rounded base and pointed top. Flowers in May.

Dominican Republic, Sabana Alta near San Juan collected by Ann Hadder and William Osment of Hollywood, Florida. Flowered in Hollywood, Florida and Honolulu.

ONCIDIUM x CUBENSE Moir, not. hybr. nov.

(Onc. variegatum (SW.) SW. x Onc. leiboldii Rchb.f.)

Habitu inter parentiis intermedium, excepto folii longiore. Rhizoma brevis,

Pseudbulb non visibile, plant on 3 to 4 cm. rhizome, numerous roots. Leaves 6 to 7 cm. long. 1 cm. broad, upper side longer and curved to a sharp point, large groove. Scape short and many flowered, bracts small and pointed. Dorsal sepal 1 cm. long by 3 mm. broad, brown bars on white,

concave, erect; lateral sepals joined, brown, concave, two pointed. Petals 1.2 cm. by 5 mm., undulated, white, with dark brown bars to 3/4 of way from base. Lip 2 cm. x 2 cm. white with dark brown bars and soots to mask around crest; lateral lobes medium sized turned up and rounded; isthmus about 5 mm; lower lobe reniform and full. Wings on column large like variegatum. Stronger grower than either parent and floriferous.

Cuba, exact spot unknown. Received in Honolulu prior to 1950. Flowered in Honolulu. Specimen already at Ames Herbarium as Onc. leiboldii var. majus. Proved by making the cross.

ONCIDUM x VARVELUM Moir, nat. hybr. nov.

(Onc. variegatum (SW.) SW. x Onc. velutinum Ldl.)

Habitu inter parentis intermedium.

Pseudobulbs not visible. Growth rhizomatous as both parents but more lax compared to velutinum, rhizome 10 cm., wiry. Leaves to 5 or 6 in number curved and grooved on upper edge, green, serrated lightly. Scape a raceme at first then branched later, long, floriferous. Dorsal sepal 8 mm. long x 2 mm. broad, light lavender with brown bars, concave; lateral sepals jointed together but 2 points, concave, brown. Petals 1 cm. long x 7 mm. broad at middle, with brown bars part way, white to pale lavender, and undulated, dull point, turned inward and upward. Lip 1.7 cm. long to 1.8 mm. turned up and rounded ends as in velutinum; mask around crest brown to dotted with brown; crest 6 parts, upper two large and straight sideways with groove, little pearl like projection in between large ones, lower part of crest has 1 large part turned up and one little one on each side. Wings on column are large, lavender, lower end rounded, upper end pointed.

Haiti about 2500 ft. elevation on citrus trees at road side, above Petionville. Flowered in Honolulu.